

Sub C17 ✓

A disposable tissue removal device comprising a cutting element mounted to a handpiece. The cutting element includes an outer cannula defining a tissue-receiving opening and an inner cannula concentrically disposed within the outer cannula. The outer cannula has a trocar tip at its distal end and a cutting board snugly disposed within the outer cannula. The inner cannula defines an inner lumen that extends the length of the inner cannula and terminates in an inwardly beveled, razor-sharp cutting edge. The inner cannula is driven by both a rotary motor and a reciprocating motor. At the end of its stroke, the inner cannula makes contact with the cutting board to completely sever the tissue. An aspiration vacuum is applied to the inner lumen to aspirate excised tissue through the inner cannula and into a collection trap that is removably mounted to the handpiece. The rotary and reciprocating motors are hydraulically powered through a hydraulic circuit. The hydraulic circuit includes a foot pedal that initiates aspiration vacuum, rotary motion and reciprocation of the inner cannula. The hydraulic circuit is configured so that the inner cannula closes the tissue-receiving opening before the foot pedal is depressed and automatically after the foot pedal is released.

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